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For Chemical
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Solution Manual
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part 2 - Lecture 6.2
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Mass, part 1 -

Lecture 2.1 -

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For Chemical Engineers

An understanding of fluid mechanics is essential for the

chemical engineer

because the

majority of

chemical-

processing

operations are

conducted either

partially or totally

in the fluid phase.

Such knowledge is

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needed in the
biochemical,
chemical, energy,
fermentation,
materials, mining,
petroleum,
pharmaceuticals,
polymer, and waste-
processing
industries.

Fluid Mechanics for
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James O...

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editions. It is still a
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and energy
balances and

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included than is
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concepts presented.

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Knowledge of fluid mechanics is essential for the chemical engineer because the majority of chemical-processing operations are conducted either partly or totally in the fluid phase.

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For Chemical Engineers

| 1.1 Fluid ...

Part I: Macroscopic
Fluid Mechanics 1 .

Chapter 1:

Introduction to

Fluid Mechanics 3.

1.1 Fluid Mechanics
in Chemical

Engineering 3. 1.2

General Concepts of
a Fluid 3. 1.3

Stresses, Pressure,
Velocity, and the

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Basic Laws 5. 1.4

Physical
Properties—Density,
Viscosity, and

Surface Tension 10.

1.5 Units and
Systems of Units

21. 1.6

Hydrostatics 26

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1.1 Fluid Mechanics in Chemical Engineering

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the fluid phase.

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contains solutions

to all the problems

in the text. Many of

those are

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discussion
problems; I have
tried to present
enough guidance so
that the instructor
can lead a useful
discussion of those
problems.

Fluid Mechanics for
Chemical
Engineers, 3rd
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Course Description

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This course is an advanced subject in fluid and continuum mechanics. The course content includes kinematics, macroscopic balances for linear and angular momentum, stress tensors, creeping flows and the lubrication approximation, the

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boundary layer
approximation,
linear stability
theory, and some
simple turbulent
flows.

Mechanics of Fluids
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Fluid mechanics is
the study of fluid
behavior (liquids,
gases, blood, and
plasmas) at rest
and in motion. Fluid
mechanics has a

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For a wide range of applications in mechanical and chemical engineering, in biological systems, and in astrophysics. In this chapter fluid mechanics and its application in biological systems are presented and discussed.

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an overview |
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Topics

Fluid mechanics helps us understand the behavior of fluid under various forces and at different atmospheric conditions, and to select the proper fluid for various

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applications. This field is studied in detail within Civil Engineering and also to great extent in Mechanical Engineering and Chemical Engineering.

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The Properties &
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Introduction.

Definition of a fluid
and Newtons' law of
viscosity; Rate of
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Newtonian fluid;
Fluid Statics.
Pascal's theorem,
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NPTEL :: Chemical
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Mechanics

Fluid mechanics is
important in
chemical
engineering
because most of the
substances that are

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handled are in the form of a fluid, whether liquid or gas. For instance in a refinery, petroleum and petroleum products are fluids. Fluids have different properties and need to be understood to be able to handle them properly.

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What is importance
of fluid mechanics
in chemical ...

Preface. 1.

Introduction to
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Fluid Mechanics in
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General Concepts of
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book's coverage of practical issues encountered in this field. The second, on computational fluid dynamics (CFD), shows students the connection between hand and computational fluid dynamics.

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Since most
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conducted either
partially or totally
in the fluid phase,
chemical engineers
need mastery of

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fluid mechanics.

Such knowledge is especially valuable in the biochemical, chemical, energy, fermentation, materials, mining, petroleum, pharmaceuticals, polymer, and waste-processing industries. Fluid Mechanics for Chemical

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Engineers: with
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and COMSOL
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systematically
introduces fluid
mechanics from the
perspective of the
chemical engineer
who must
understand actual
physical behavior
and solve real-

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popular COMSOL
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software. This third
edition contains

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Extensive coverage

of both

microfluidics and

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dynamics,

systematically

demonstrating CFD

through detailed

examples using

COMSOL

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chapter on

turbulence now

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presents valuable
CFD techniques to
investigate practical
situations such as
turbulent mixing
and recirculating
flows. Part I offers
a clear, succinct,
easy-to-follow
introduction to
macroscopic fluid
mechanics,
including physical
properties;

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hydrostatics; basic rate laws; and fundamental principles of flow through equipment.

Part II turns to microscopic fluid mechanics: Differential equations of fluid mechanics Viscous-flow problems, some including polymer processing

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Laplace 's equation;
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Nearly

unidirectional flows,
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layers to
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applications

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showing how the k-
method extends

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in fluid mechanics

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Applications to
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and to mechanical
separation
processes
are addressed. The
first part of the
book presents the
principles of
fluid mechanics used
by chemical
engineers, with a

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focus on
global theorems for
describing the
behavior of
hydraulic systems.

The second part
deals with
turbulence and its
application for
stirring, mixing and
chemical reaction.

The third part
addresses mechanic
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fundamental basic
scientific principles.

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has been thoroughly
updated to reflect
the field's latest
advances. This
second edition
contains extensive
new coverage of
both microfluidics
and computational
fluid dynamics,
systematically

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examples using
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Designed for introductory undergraduate courses in fluid mechanics for chemical engineers, this stand-alone textbook illustrates the fundamental concepts and analytical strategies in a rigorous and

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mathematically
accessible manner.
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examines key
topics such as
viscous stresses,
surface tension, and
the microscopic
analysis of
incompressible
flows which enables

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text on physical and chemical equilibrium. De Nevers is also the author of Fluid Mechanics for Chemical Engineers.

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adopting stereo-
typed question-
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those who are not
experts in the field.

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Newtonian systems
which, for instance
find importance in
polymer and food
processing, flow
through piping, flow
measurement,
pumps, mixing

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Cover the basics
involved in
conduction,
convection and
radiation, with
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insulation, heat
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evaporators,
condensers,
reboilers and fired
heaters. Design
methods,
performance,

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Operational issues and maintenance problems are highlighted. Topics such as heat pipes, heat pumps, heat tracing, steam traps, refrigeration, cooling of electronic devices, NO_x control find place in the book. Mass transfer chapters cover basics such

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as diffusion, theories, analogies, mass transfer coefficients and mass transfer with chemical reaction, equipment such as tray and packed columns, column internals including structural packings, design, operational and installation issues, drums and

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supercritical
solvent extraction
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Presents the
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